

What is claimed is:

- 1 1. A method of communications, comprising:
2 determining one of plural rates to code data for communication over a
3 network;
4 encapsulating the data in a packet having a quality-of-service indicator
5 field; and
6 setting one of plural values for the quality-of-service indicator field based
7 on the determined one of plural rates.

- 1 2. The method of claim 1, further comprising:
2 setting a first value for the quality-of-service indicator field if a first rate is
3 determined; and
4 setting a second value for the quality-of-service indicator field if a second
5 rate is determined.

- 1 3. The method of claim 1, wherein determining one of plural rates comprises
2 determining one of plural rates of an adaptive multi-rate codec.

- 1 4. The method of claim 1, further comprising transmitting the packet over a
2 wireless link.

- 1 5. The method of claim 1, wherein encapsulating the data in the packet
2 comprises encapsulating the data in an Internet Protocol packet.

- 1 6. The method of claim 5, wherein setting one of plural values for the
2 quality-of-service indicator field comprises setting one of plural values for a
3 differentiated services field.

- 1 7. The method of claim 1, wherein determining one of plural rates to code
2 data comprises determining one of plural rates to code real-time data.

1 8. The method of claim 1, wherein determining one of plural rates to code
2 data comprises determining one of plural rates to code audio data.

1 9. An article comprising at least one storage medium comprising instructions
2 that when executed cause a system to:
3 determine one of plural rates to code data for communication over a
4 network; and
5 set one of plural quality-of-service values in a packet, based on the
6 determined one rate, to carry the data over the network.

1 10. The article of claim 9, wherein the instructions when executed cause the
2 system to determine one of plural rates by determining one of plural rates of an adaptive
3 multi-rate codec.

1 11. The article of claim 9, wherein the instructions when executed cause the
2 system to set one of the plural quality-of-service values by setting one of plural
3 differentiated services field values.

1 12. The article for claim 11, wherein the instructions when executed cause the
2 system to set the one of plural differentiated services field values in an Internet Protocol
3 packet.

1 13. The article of claim 9, wherein the instructions when executed cause the
2 system to set one of the plural quality-of-service values by setting one of plural
3 differentiated services code points.

1 14. The article of claim 9, wherein the instructions when executed cause the
2 system to determine one of plural rates to code one of audio data and video data.

1 15. A system comprising:
2 a codec adapted to code real-time data; and
3 a controller adapted to vary a codec rate and to set one of plural quality-of-
4 service indicator values based on the codec rate.

1 16. The system of claim 15, further comprising an interface to a wireless link.

1 17. The system of claim 15, wherein the codec comprises an adaptive multi-
2 rate codec.

1 18. The system of claim 15, wherein the controller comprises application
2 software to set the one of plural quality-of-service indicators.

1 19. The system of claim 18, further comprising a network layer to encapsulate
2 the data in a packet to carry the one quality-of-service indicator value.

1 20. The system of claim 19, wherein the network layer comprises an Internet
2 Protocol layer.

1 21. The system of claim 15, further comprising a Real-Time Protocol module
2 adapted to encapsulate the real-time data in a Real-Time Protocol packet.

1 22. The system of claim 15, wherein the controller is adapted to set one of
2 plural quality-of-service indicator values by setting one of plural differentiated services
3 code points.

1 23. A system comprising:
2 a network interface to receive plural units of data from a network;
3 a plurality of queues to store the units of data, each unit of data containing
4 a quality-of-service indicator, the plural units of data containing different quality-of-
5 service indicator values that correspond to different coding rates; and
6 a controller adapted to store each unit of data in one of the plurality of
7 queues based on the quality-of-service indicator value in the unit of data.

1 24. The system of claim 23, wherein the units of data contain conversational
2 data.

1 25. The system of claim 23, wherein the coding rates comprise rates of an
2 adaptive multi-rate codec.

1 26. The system of claim 23, wherein the quality-of-service indicator values
2 comprise differentiated services code points.